

## 产品简介

# OptiMOS™ p 沟道 MOSFET 60 V 系列

## 英飞凌下一代 p 沟道产品

得益于经济高效的封装技术以及领先、可靠、成熟的硅工艺，英飞凌提供业内性价比最佳的高性能产品。

OptiMOS™ p 沟道 MOSFET 简化了中、低功耗应用的设计复杂性。简单的微控制单元 (MCU) 接口、高速开关和雪崩能量使其适用于高质量要求的应用。由于栅极电荷 ( $Q_g$ ) 较低，OptiMOS™ p 沟道 MOSFET 可在提高轻载效率。

OptiMOS™ p 沟道 MOSFET 在逻辑电平和正常电平规格，都有宽导通电阻 ( $R_{DS(on)}$ ) 范围可供\*选择。

英飞凌下一代 p 沟道产品是对当前产品组合的扩展。此外，其中一些产品是现有 p 沟道产品的良好替代方案。

英飞凌的 OptiMOS™ 技术结合小信号和功率 MOSFET 封装，针对各种应用和电路进行了优化，如低压驱动器、线性电池充电器、电池保护、负载开关、DC-DC 转换器、极性反接保护等。

英飞凌新型 OptiMOS™ p 沟道 MOSFET 60 V 有 4 种不同的封装选项：

- › 小信号封装：SOT-23 和 SOT-223
- › 功率封装：DPAK 和 D<sup>2</sup>PAK

### 关键性能

- › 漏源击穿电压  $V_{BRDSS} = -60\text{ V}$
- › 4 种不同封装方式
- › 宽范围导通电阻 ( $R_{DS(on)}$ ) 可选
- › 可选择逻辑电平和正常电平

### 主要优点

- › 高速开关
- › 雪崩能量
- › 简单的 MCU 接口
- › 得益于低  $Q_g$ ，轻载改效率
- › 降低设计复杂度
- › 高能效
- › 工业级封装工艺

### 目标应用

- › 电池管理
- › 负载开关
- › 极性反接保护

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产品组合

漏源击穿电压 VBRDSS	封装	产品编号	R <sub>DS(on)</sub> max. @ V <sub>GS</sub> = 10 V [mW]	正常电平 (NL) 逻辑电平 (LL)
工业级应用最佳选择				
-60 V	D <sup>2</sup> PAK	IPB110P06LM	11	LL
	DPAK	IPD380P06NM	38	NL
		IPD650P06NM	65	NL
		IPD900P06NM	90	NL
		IPD25DP06LM	250	LL
		IPD25DP06NM	250	NL
		IPD40DP06NM	400	NL
	SOT-223	ISP650P06NM	65	NL
		ISP12DP06NM	125	NL
		ISP25DP06LM	250	LL
		ISP25DP06NM	250	NL
		ISP75DP06LM	750	LL
	SOT-23	ISS17EP06LM	1700	LL
		ISS55EP06LM	5500	LL
消费级应用最佳选择				
-60 V	SOT-223	ISP13DP06NMS	130	NL
		ISP25DP06LMS	250	LL
		ISP26DP06NMS	260	NL

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